SUMMARY OF ORGANIC DATA

GREAT SWAMP SITE GROUNDWATER MONITORING WELL SAMPLES

Initial Sampling Results*

1							Sample Num	nber						
M			Site A						Şi	te B				
Volatile Organics (ug/l)	GS-1 10/17	GS-2 10/17	GS-3 10/16	GS-4 10/17	GS-5 10/16	GS-10 10/17	GS-11** _10/17	GS-6 10/17	GS-7 10/20	GS-8 10/20	GS-9 10/20	FB-2 (2348) 10/17	TB 10/16	TB の 10/20 の
Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethene 1,1-Dichloroethane Trans-1,2-Dichloroethene Chloroform 1,1,1-Trichloroethane Trichloroethene Benzene 1,1,2,2-Tetrachloroethane Toluene Ethyl Benzene	6 43 		98 96 2JB 8 17 0.9JB	3708 57008 61J 11J 55J8 17J8 16J	8B 16 1JB 0.8JB	68 738 33 13 0.838 0.738 0.73	93B 3100B 3JB 4J 5JB 2J	73	58 238 0.638 0.83	8B 0.9JB 0.9JB -	0.7JB	9J 2J 	128 0.5J 4JB 0.9J 0.9JB	88 72 73 75 75 75 75 75 75 75 75 75 75 75 75 75
Base Neutrals (ug/l) Bis (2-chloroisopropyl) ethe Diethyl phthalate Di-n-butyl phthalate Butyl benzyl phthalate Bis-2-ethylhexyl phthalate Phenol 2-Chlorophenol	r 1708 698 	 8JB	18	 1308 818 	 16	 78 3J 17 9608 	2J 14 11008 2J	 10B 18B	4JB 3JB 0.7J	4JB 36 4JB	3J8 5J 3308	0.93 158		
Pesticides/PCBs (ug/1) Alpha-BHC Beta-BHC Aldrin Phenols (ug/1)	 57	 	 	 79	 	2.3 0.9 	 	 27	 	 	 	 .03J		

^{*} Samples were collected in October 1986.

⁻⁻ Indicates compound was analyzed for but not detected.

J Indicates that the concentration listed is an estimated value, which is less than the specified minimum lower limit but greater than zero.

B Analyte was found in the method blank as well as in the sample.

Blank space indicates sample was not analyzed for that parameter.

TB Trip Blank

FB Field Blank

^{**} Sample 11 is a duplicate of sample 4.

SUMMARY OF INORGANIC DATA

GREAT SWAMP SITE GROUNDWATER MONITORING WELL SAMPLES

Initial Sampling Results*

		<u> </u>				Sample	Number						
			Site A			Site B							
Metals (ug/l)	<u> GS-1</u>	<u>GS-2</u>	<u>GS-3</u>	<u>65-4</u>	<u> </u>	<u>GS-10</u>	<u>65-11</u> **	<u> 65-6</u>	<u>GS-7</u>	GS-8	<u>6\$-9</u>	FB-2 (2348)	
Antimony	83	70		70		71			66				
Arsenic													
Beryllium					[3.4]	-							
Cadmium					24	17							
Chromium				33	36	21	10				[10]		
Copper												***	
Lead		6.3N	***		273N								
Mercury	0.4	1.2	4.7				4.4						
Nickel					122								
Silver					12								
Zinc	78	129	33	646	3.63	270	214	61	109	74	213	188	
Cyanide (ug/l)				· 					-		12		

Samples were collected from 10/16/86 to 10/20/86.

⁻⁻ Indicates compound was analyzed for but not detected.

^[] Indicates reported value is greater than or equal to the instrument detection limit but less than the contract-required detection limit.

N Indicates spike sample recovery is not within control limits.

FB Field Blank

Sample 11 is a duplicate of sample 4.

GREAT SWAMP SITE (SITE A) GROUNDWATER MONITORING WELL SAMPLES

SECOND ROUND SAMPLING RESULTS*

				GREAT SWAMP S	<u> PRING WELL ŞA</u>	MPLES) W w	r ,	12341
			5	ECOND ROUND SA	MPLING RESUL	.12"					0005
					ς,	umple Numbers		ABD 00	2 0193		О Ш
											Ω
Volatile Organics (ug/l)	GS-1-1 <u>6/17</u>	GS-1-F	GS-2-1 <u>6/17</u>	GS-2-1F	GS-3-1 <u>6/18</u>	GS-3-1F	GS-4-1 <u>-6/18</u>	GS-4-1Fª	GS-5-1 <u>6/18</u>	GS-5-1F	Σ
Acetone	-		-		_		-		U		
Benzene	-		-		U		-		-		
Toluene	-		-		U		-		-		
Base Neutrals (ug/l)											
Bis-2-ethylhexyl phthalate	U		U		U		U		U		
Metals (ug/1)											
Arsenic	-	-	_	[2.2]R	[4.4]R	_	_		_	-	
Beryllium	-	_	-	-	-	_	-		-	_	
Cadmium	-	-	-		-	-	. -			4 [4.07]	
Chromium	19	11	31	17	14	-	14		16	-	
Copper	(2, (10	-	-	-	- 250	-	44		45.0	-	
Lead	[3.5]R	0.4	-	[2.1]	8.25R	-	15		45R	2.6	
Mercury Nickel	[22]	U.4 -	_	_	1.4 4.0	3.6	48		0.4 4 5	2.6	
Silver	[[[]	11R	_	_	7.0	13R	70		73	12R	
Zinc	[16]E	(7.0)RE		[13]	26	-	120		379ER	(9.0)RE	
	F 3 -	£							51.7EN	F2.03m2	

Samples were taken in June 1987.

Indicates the sample was filtered prior to analysis (only applicable for metals).

Sample bottle broke after graphite furnace digest. Indicates compound was analyzed for but not detected.

The result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit. []

Indicates spike sample recovery is not within control limits. Ε

Indicates a value estimated or not reported due to the presence of interference.

Data is unuseable due to QA/QC problems in the laboratory.

GREAT SWAMP SITE (SITE B) GROUNDWATER MUNITOFING WISE TAMES

SECOND ROUND JAMES INS. FE ... 1 ...

							Şample N	umbers	ABD	002	0194	
	<u> GS-6-1</u>	<u> GS-6-1F</u>	<u>6\$7-1</u>	<u>GS-7-1F</u>	<u>65-8-1</u>	<u> GS-8-1F</u>	<u>65-9-1</u>	<u>65-9-1F</u>				
Base Neutrals (ug/l)												
Bis-2-ethylhexyl phthalate	U		บ		υ		U					
<u>Metals</u> (ug/l)												
Arsenic	-	-	-	-	[50]	_	_	-				
Beryllium	-	-	-	-	_	-	[3.0]	-22				
Cadmium	-	-	[3.0]	-	_	-	16	-				
Chromium	187	-	128	-	70	-	237	-				
Copper	32	-	75	_	37	-	225	-				
Lead	13	-	24	-	20	_	185R	-				•
Mercury	-	-	-	-	-	-	-	-				
Nickel	90	_	156	[31]	63	_	2.8	-				
Silver	-	12R	-	-	_	12R	-	-				
Zinc	54	[18R	94	[17]RE	79	20RE	438E	26RE				

Samples were taken on 6/19/87.

Indicates the sample was filtered prior to analysis (only applicable for metals).

Indicates compound was analyzed for but not detected.

^[] The result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit.

Indicates spike sample recovery is not within control limits.

Indicates a value estimated or not reported due to the presence of interference.

Data is unuseable due to QA/QC problems in the laboratory.

SECOND ROUND SAMPLING RESULTS*

							ABD	002	0195	
					Şamç	le Numbers				
<u>Volatile Organics</u> (ug/l)	GS-10-1 6/18	GS-10-1F	GS-11-1 6/18	GS-11-1F	FB#1 6/18	18#3 6/18				4
Acetone	-		-		768					000234
Benzene	-		-		-	-				\sim
Toluene	-		~		-	-				8
Base Neutrals (ug/l)										
Bis-2-ethylhexyl phthalate	U		U		U					MDE
Metals (ug/l)										~
Arsenic	-	_	_	_	_					
Beryllium	_	_	_	_	_					
Cadmium	-	-	-	-	-				•	•
Chromium	70	-	32 52	-	182					
Copper	48	17	52	-	52R					
Lead	67	[2.4]R	1 1 R	-	-					
Mercury	-	-			-					
Nickel	[39]	-	53	12	-					
Silver	-	1 1 R	_	-	-					

[9.0]RE 544RE

Zinc

[]

Ε

[7.0]RE 122ER

163ER

(D233P/22:0018P)

Samples were taken in June 1987.

Indicates compound was analyzed for but not detected.

¹⁸ Trip Blank.

Field Blank FB

The result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit.

Indicates spike sample recovery is not within control limits.

Indicates a value estimated or not reported due to the presence of interference.

Data is unuseable due to QA/QC problems in the laboratory.

U Samples GS-11-1 and GS-11-1F are duplicates of GS-10-1 and GS-10-1F respectively.

SUMMARY OF PRIORITY POLLUTANI DATA GREAT SWAMP - SITE A GROUNDWATER MONITORING WELL SAMPLES

DRAFT

THIRD ROUND SAMPLING RESULTS*

<u>Volatile Organics</u> (ug/l)	GS1-2 10/13	GS1-2F	GS2-2 10/13	GS2-2F	GS3-2 10/13	GS3-2F	GS4-2 10/14	GS4-2F	GS5-2 10/14	GS5-2F	GS10-2 10/14	G\$10-2F	GS11-2** 10/14	GS11-2F**	161-2 10/13
Benzen e	າງ		-		6		0.7J		5		13		13		_
Chlorobenzene	_		_		4 J		2J		_		_		-		_
Methylene chloride	NOB		-		_		_		_		_		-		6
Toluene	_		-		NDB		NOB		ND8		_		_		7
Trichloroethene	-		-		_		-		_		4 J		4 J		-
Total Xylenes	-		-		-		-		-'		-		-		2JX
Semi-Volatile Organics (ug/l)															•
Phenol	4 J		_		10		2 J		8J		2 J		-		-
4-Methyl phenol	_		-		15		3J		11		_		-		_
Benzoic Acid	-		-		8 J				_		_		-		-
Pentachi orophenol	4 J		-		143		-		-		-		-		-
Metals (ug/l)															
Arsenic	-	_	20	-	[8.0]	-	-	-	-	[8.0]	[5.2]	-	_	-	
Cadmium	_	-	_	-	-	_	_	_	_	-	-	-	6.6N	-	
Chromium	U	-	U	-	U	-	17	[6.0]	[8.0]	[5.0]	16	[7.0]	19	[8.0]	
Соррег	[22]	[13]	45N	[7.0]N	28N	[11]N	41	[14]	[14]	[12]	78	[15]	77	[15]	
Lead	(5.0]N	-	21SN	-	14SN	-	198	-	22	-	114	-	126	-	
Mercury	0.5	-	0.6	-	2.3	-	1.4	-	3.4	2.8	2.7	-	2.9	_	
Nickel	-	-	[36]N	-	[30]N	-	[22]	-	[13]	-	[23]	-	[23]	-	
Selenium	-	_	-	-	-	-	-	-	-	[2.0]	[2.0]	-	-	[3.0]	
Zinc	31N	20N	103N	24N	63N	21N	90	[11]	128	21	244	[13]	237	[14]	

Samples were collected on 10/13/87 and 10/14/87.

J Indicates that the concentration listed is an estimated value which is less than the specified minimum detection limit but greater than zero. NDB Value is reported as not detected because compound was found at a concentration less than five times (ten times for common lab contaminants) the amount in any blank associated with the sample

⁽⁻⁾ Indicates compound was analyzed for but not detected

^[] Value is greater than or equal to the instrument detection limit but less than the contract required detection limit

FB Field Blank
S Indicates value determined by method of standard addition

N Indicates spike sample recovery is not within control limits

Data is unusable due to QA/QC problems with the laboratory results

x Denotes that a manual change was made to the original data from the GC/MS data system using the Formaster Program.

^{&#}x27; Samples GS11-2 and GS11-2F are duplicates of GS10-2 and GS10-2F

SUMMARY OF PRIORITY POLLUTANT DATA GREAT SWAMP - SITE B GROUNDWATER MONITORING WELL SAMPLES

MDE 0002345

THIRD ROUND SAMPLING RESULTS*

	<u>GS6-2</u>	G\$6-2F	<u>GS7-2</u>	<u>G\$7-2F</u>	G\$8-2	GS8-2F	GS9-2	<u>G\$9-2F</u>	FB1-2	<u>FB1-2F</u>
Semi-Volatile Organics (ug/l)										
Phenol	3 J		2J		2J		13		-	-
Metals (ug/l)										
Antimony	_	_	_	_	_	_	_	_	[56]N	€3N
Chromium	_	[9.0]	16	[8.0]	12	19	[5.0]	_	-	_
Copper	_	[19]	25	[13]	[24]	43	[20]	[20]	[11]	43
Lead	7.0	-	[5.0]\$	-	[3.0]\$	36	-	_	3.0	_
Mercury	_	-	_	-	_	-	-	-	-	_
Nickel	-	[17]	[32]	[14]	[16]	[18]	-	-	_	
Zinc	21	35	40	32	34	81	86	47	-	41

^{*} Samples were collected on 10/16/87

J Indicates that the concentration listed is an estimated value which is less than the specified minimum detection limit but greater than zero.

Analyte was found in method blank as well as in the sample

⁽⁻⁾ Indicates compound was analyzed for but not detected

^[] Value is greater than or equal to the instrument detection limit but less than the contract required detection limit

FB Field Blank

S Indicates value determined by method of standard addition

N Indicates spike sample recovery is not within control limits

GREAT SWAMP SITE ASBESTOS DATA

	First Sampling	Second Sampling	Third Sampling
Monitoring	Round	Round	Round
<u>Well</u>	10/86	6/87	10/87
GS-1	<100,000	<200,000	<500,000
GS-2	130,000	<1,000,000	<1,000,000
GS-3	120,000	Unreadable	<1,000,000
GS-4	<100,000	<1,000,000	<500,000
GS-5	<100,000	<1,000,000	<200,000
GS-6	<100,000	<1,000,000	<400,000
GS-7	<100,000	Unreadable	<400,000
GS-8	<100,000	<1,000,000	<1,000,000
GS-9	<100,000	<1,000,000	<500,000
GS-10	390,000	<1,000,000	<500,000
GS-11*	<100,000	1,596,000	<400,000
FB-1	<100,000	<100,000	<50,000

All measurements are noted in fibers per liter.

* This sample was a duplicate of GS-4 during the first sampling round and a duplicate of GS-10 during the second and third sampling rounds.

002 0198

SUMMARY OF PRIORITY POLLUTANT DATA

NEW VERNON ROAD SITE GROUNDWATER MONITORING WELL SAMPLES

Initial Sampling Results*

-	Sample Number							
Volatile Organics (ug/l)	NVR1 (10/15)	NVR2 (10/16)	NVR3 (10/16)	TB (10/15)	TB <u>(10/15</u>)			
Methylene chloride Trichlorofluoromethane Chloroform Trichloroethene 1,1,2,2-Tetrachloroethane Ethyl Benzene	NDB NDB 	NDB NDB 2J NDB	NDB O.4J NDB 1JB NDB	13B 5B 3J	128 0.53 438 0.93 			
Base Neutrals (ug/l)								
Diethyl Phthalate Di-n-octyl phthalate	15	0.4J 5J	 6J					
Metals (ug/l)								
Chromium Mercury Zinc	 4.5 71	35 638	31 554					
Phenols (ug/l)	130							

Samples were collected in October 1986.

ABD 002 0199

⁻⁻ Indicates compound was analyzed for but not detected.

Indicates that the compound was analyzed for and determined to be present in the sample. The mass specturm of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum lower limit but is greater than zero.

Analyte was found in method blank as well as in sample.

Blank space indicates that the sample was not analyzed for that parameter.

TB Trip Blank

NDB Value is reported as not detected because compound was found at concentrations less than five times (ten times for common lab contaminants) the amount in any black assistanted with sample.

SUMMARY OF PRIORITY POLLUTANT DATA

<u>NEW VERNON ROAD SITE</u> GROUNDWATER MONITORING WELL SAMPLES

SECOND ROUND SAMPLING RESULTS*

		Sample M	lumber	
Volatile Organics (ug/l)	<u>NVR1-1</u>	NVR2-1	NVR3-1	<u>TB#1</u>
Acetone Benzene Chlorobenzene Methylene Chloride Toluene	U U U U	U U -	U - U -	U - U -
Base Neutrals (ug/l) Bis (2-Ethylhexyl) phthalate	U	U	U	
Metals (ug/l)**	-	-	-	
Arsenic Cadmium Chromium Copper Lead Mercury Nickel Silver Zinc	- - - 5.45R 1.2 - 17R 31ER	- 48 [17] [3.5]R - 53 - 30ER	25R 15 115 209 37R - 189 - 280ER	

* Samples were taken on 6/16/87.

** Results are for total metals. Filtered metal samples were lost at the laboratory.

-- Indicates compound was analyzed for but not detected.

TB Trip Blank

[] The result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit.

R Indicates spike sample recovery is not within control limits.

E Indicates a value estimated or not reported due to the presence of interference.

U Data is unuseable due to QA/QC problems in the laboratory.

ABD 002 0200

MDE 0002348

SUMMARY OF PRIORITY POLLUTANT DATA NEW VERNON ROAD SITE GROUNDWATER MONITORING WELL SAMPLES

DWAF.

THIRD ROUND SAMPLING RESULTS*

	NVR1-2	NVR1-2F	NVR2-2	NVR2-2F	NVR3-2	NVR3-2F
Volatile Organics (ug/l)	-					
Acetone Benzene Chlorobenzene Methylene chloride Toluene	100B 16 3J 55 24		- - - -			
<u>Semi-Volatile</u> <u>Organics</u> (ug/l)						
Phenol 4-Methyl phenol Benzoic Acid Pentachlorophenol	23 39 52 5J		1J - -		- - -	
Metals (ug/l)						
Arsenic Chromium Copper Lead Mercury Nickel Zinc	[12]N 16SN 5.1 -	[9.0]N [8.0]N 	- [5.0]N [19]N [4.0]N - - 32	 36N _ 63N	12 U 440 17N - [19]N 57N	

Samples were collected on 10/12/87.

J Indicates that the concentration listed is an estimated value which is less than the specified minimum detection limit but greater than zero.

Analyte was found in method blank as well as in the sample

⁽⁻⁾ Indicates compound was analyzed for but not detected

^[] Value is greater than or equal to the instrument detection limit but less than the contract required detection limit

FB Field Blank

S Indicates value determined by method of standard addition

N Indicates spike sample recovery is not within control limits

U Data is unusable due to QA/QC problems in the laboratory

NEW VERNON SITE

ASBESTOS DATA

Monitoring Well	First Sampling Round 10/86	Second Sampling Round 6/87	Third Sampling Round 10/87
NVR-1	<100,000	<200,000	<400,000
NVR-2	<100,000	<200,000	<500,000
NVR-3	<100.000	<1,000,000	<1,000,000

BD 002

0202

All measurements are noted in fibers per liter

MDE 0002350

060888

SUMMARY OF PRIORITY POLLUTANT DATA

WHITE BRIDGE ROAD SITE GROUNDWATER MONITORING WELL SAMPLES

Initial Sampling Results*

	Sample Number			
Volatile Organics (ug/1)	WBR1	WBR2	WBR3	TB (10/15)
Methylene chloride Chloroform 1,1,2,2-Tetrachloroethane	NDB NDB	 	NDB NDB	13B 5B 3J
Base Neutrals (ug/l)				
Bis-2-ethylhexylphthalate Di-n-octyl phthalate	15	NDB 27	127	
<pre>Metals (ug/l)</pre>				
Copper Silver Zinc	17 371	 78	23 128	
Phenols (ug/l)	49	45	85	

* Samples were collected on 10/15/86.

Indicates compound was analyzed for but not detected.

TB Trip Blank

J Indicates that the concentration listed is an estimated value, which is less than the specified minimum lower limit but greater than zero.

B Analyte was found in the method blank as well as in the sample. Blank space indicates that the sample was not analyzed for that parameter.

NDB Value is reported as not detected because compound was found at concentrations less than five times (ten times for common lab contaminants) the amount in any blank associated with sample.

SUMMARY OF PRIORITY POLLUTANT DATA

WHITE BRIDGE ROAD SITE GROUNDWATER MONITORING WELL SAMPLES

SECOND ROUND SAMPLING RESULTS*

	Sample Number				
Volatile Organics (ug/l)	WBR1-1	WBR2-1	WBR2-1F	WBR3-1	IBR3-1F TB#1
Acetone 2-Butanone	-	- -		U U	'J -
Base Neutrals (ug/l)					
Bis-2-ethylhexyl pthalate	U	U		U	บ
Metals (ug/l)					
Arsenic	[5.4]		[2.4]R	[6.1]F	R [4.3]R
			-	16	-
			_	-	-
Lead			-	[5.0]	SR -
Nickel	132	100	-	[32]	-
Silver	-	-	-	-	-
Zinc	230	93	258RE	29ER	-
Arsenic Cadmium Chromium Copper Lead Nickel	8.0 99 74 235R	16 69 42 225R	[2.4]R - - - - - - 258RE	16 [5.0]S	-

MDE 0002352

Samples were taken on 6/16/87.

Indicates sample was filtered prior to analysis (only applicable for metal:

Indicates compound was analyzed for but not detected.

TB Trip Blank

^[] The result is a value greater than or equal to the instrument detection but less than the contract required detection limit.

Indicates spike sample recovery is not within control limits.

Indicates a value estimated or not reported due to the presence Ε interference. ABD

S Indicates value determined by method of Standard Addition.

Blank space indicates analysis was not performed on this parameter.

Data is unuseable due to QA/QC problems in the laboratory.

SUMMARY OF PRIORITY POLLUTANT DATA WHITE BRIDGE ROAD SITE GROUNDWATER MONITORING WELL SAMPLES THIRD ROUND SAMPLING RESULTS*

UBAFT

	WBR1-2 10/12	WBR1-2F	WBR2-2 10/13	WBR2-2F	WBR3-2 10/12	WBR3-2F
Volatile Organics (ug/l)						
Benzene	-		-		13	
Semi Volatile Organics (ug/l)						
Phenol bis(2-ethylhexyl)phthalate	-		- 1808		2J -	
Metals (ug/1)						
Arsenic Chromium Copper Lead Nickel Zinc	U 38N 8.0SN [24] 58N	[12]	11 U 30N 12N [15] 51N	- U [11]N - - 24N	U [16]N - 20N	- U 82N - [15]N 66N

Samples were collected in October 1987.

YBD 005 0502

J Indicates that the concentration listed is an estimated value which is less than the specified minimum detection limit but greater than zero.

B Analyte was found in method blank as well as in the sample

⁽⁻⁾ Indicates compound was analyzed for but not detected

^[] Value is greater than or equal to the instrument detection limit but less than the contract required detection limit

FB Field Blank

S Indicates value determined by method of standard addition

N Indicates spike sample recovery is not within control limits

Data is unusable due to QA/QC problems in the laboratory



WHITE BRIDGE ROAD SITE ASBESTOS DATA

Monitoring Well	First Sampling Round 10/86	Second Sampling Round 6/87	Third Sampling Round 10/87
WBR-1	<100,000	Unreadable	<500,000
WBR-2	<100,000	Unreadable	<1,000,000
WBR~3	<100.000	<500.000	<1.000.000

All measurements are noted in fibers per liter

MDE 0002354

060888